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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: **VOGEL et al.**

CASE NO: **AD6728 US NA**

APPLICATION NO.: **09/833,452**

GROUP ART UNIT: **1773**

FILED: **APRIL 12, 2001**

EXAMINER: **JACKSON, MONIQUE R**

FOR: **MULTI-LAYERED, CO-EXTRUDED IONOMERIC DECORATIVE SURFACING**

AFFIDAVIT UNDER RULE 131

Commissioner for Patents

P.O. Box 1450

Alexandria VA 22313-1450

Sir:

State of Delaware)
) S.S.
County of New Castle)

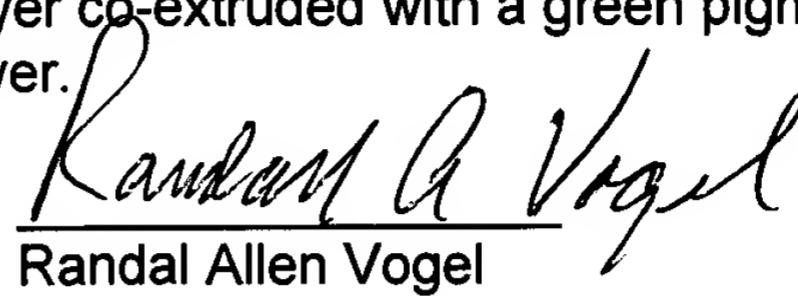
Randall Allen Vogel, being duly sworn, deposes and says:

1. I am an applicant of the patent application identified above and a co-inventor of the subject matter described and claimed therein.
2. Prior to October 13, 1999, I had completed my invention as described and claimed in the subject application in this country, as evidenced by the following:

Exhibit A, attached hereto, is a photocopy of the SANO RUN SHEET number 426. The SANO equipment is a co-extruder located at DuPont's Chestnut Run facility in Wilmington, Delaware. The requester of this run is myself ("R. Vogel") and the charge code identifies the DuPont "Surlyn" division within DuPont. The FCL code (991012-4) identifies this particular run as occurring in the year 1999, the tenth month "October" and on the twelfth day. The "4" identifies the run as being the fourth of the day.

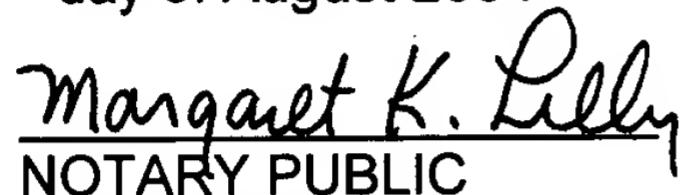
This particular run identifies three co-extruded polymer layers consistent with the instant claim language. Layer 1 ("9910 Nat.") is clear natural Surlyn 9910. The second co-extruded layer 2 ("Surlyn 9910 Pewter") is pigmented Surlyn 9910 containing a 6% pewter colored pigment concentrate (see comments to the right side of the run sheet). The third layer 3 ("Bexloy W720") is a Surlyn® and Polyethylene alloy blend commercially sold by DuPont into the automotive industry. The remaining data identifies the operating parameters,

Exhibit B, also attached hereto, is a photocopy of the SANO RUN SHEET describing the production of a two layered co-extruded sheet performed on August 13th of 1999. This two-layered embodiment is consistent with the teaching of the reference of record and also illustrates the concept of a top clear Surlyn® layer co-extruded with a green pigmented Surlyn and polyethylene blend layer.



Randal Allen Vogel

Sworn to and subscribed before me
this 5th day of August 2004



NOTARY PUBLIC

MARGARET K. LILLY

NOTARY PUBLIC

STATE OF DELAWARE

My Commission Expires Apr. 28, 2005

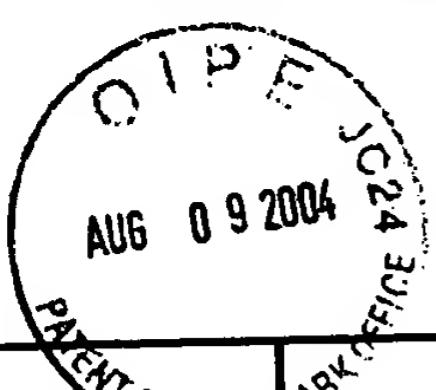


EXHIBIT A

SANO RUN SHEET

No 426

REQUESTER	CHARGE CODE	DATE	PAGE:
R. Vogel	SURLYN RESINS (TEMP IN °F)	FCL 991012-4	
EXTR.A LAYER 1 TYPE 9910 Nat. CODE GENERIC DENSITY MAX. TEMP. MIN. TEMP.	EXTR.B LAYER 3 TYPE Beyloy W720 CODE GENERIC DENSITY MAX. TEMP. MIN. TEMP.	EXTR.C LAYER 2 TYPE Surlyn 9910 Pentene CODE GENERIC DENSITY MAX. TEMP. MIN. TEMP.	EXTR.D TYPE CODE GENERIC DENSITY MAX. TEMP. MIN. TEMP.
SAFETY CONSIDERATIONS:			
LINE SPEED - FEET PER MINUTE (e.s.)			
EXTR. A PRESS. R.P.M. AMPS P.P.H. MELT °F THICK.	EXTR. B PRESS. R.P.M. AMPS P.P.H. MELT °F THICK.	EXTR. C PRESS. R.P.M. AMPS P.P.H. MELT °F THICK.	EXTR. D PRESS. R.P.M. AMPS P.P.H. MELT °F THICK.
EXTRUDER BARREL °F			
ZONE 1 300 ZONE 2 350 ZONE 3 375 ZONE 4 400 ZONE 5 400 ZONE 6 400	ZONE 1 380 ZONE 2 400 ZONE 3 450 ZONE 4 475 ZONE 5 480	ZONE 1 380 ZONE 2 400 ZONE 3 450 ZONE 4 475 ZONE 5 480	ZONE 1 ZONE 2 ZONE 3 ZONE 4 ZONE 5
EXTRA. HEADS CLOEREN BLOCK DIE °F			
EXTR. A 400 EXTR. B 480 EXTR. C 480 EXTR. D —	480	LEFT 480 CENTER 1 RIGHT	
TRANSFER PIPES			
EXTR. A LADP 400 LPIPE / BLADP /	EXTR. B LADP 480 LPIPE / BLADP /	EXTR. C LADP 480 LPIPE / CADP / UPIPE / BLADP /	EXTR. D LADP LPIPE / CADP / UPIPE /
CHILL ROLL TEMP.			
PRIMARY 80	ROLL STATION		
SECONDARY 80	HORIZONTAL POSITION 2800	VERTICAL POSITION 25	PLUG 33CAA
PULL ROLL TORQUE	MODE: CAST FILM	SHEET	GRAVITROL %
NIP ROLL TORQUE	COATING	LAMINATION	A B C D
SLIT WIDTH =	MAN		

SANO RUN SHEET

REQUESTER	CHARGE CODE	DATE	PAGE:																																																																																																																								
R. Vogel	Surelyn	8/13/99																																																																																																																									
		FCL 990813-4																																																																																																																									
RESINS (TEMP IN °F) EXTR.A EXTR.B EXTR.C EXTR.D TYPE Surelyn 9910 TYPE Bexley W730 TYPE Bexley 720 TYPE CODE W730 CODE Methyl Celos CODE Methyl Green CODE GENERIC GENERIC GENERIC GENERIC DENSITY DENSITY DENSITY DENSITY MAX. TEMP. MAX. TEMP. MAX. TEMP. MAX. TEMP. MIN. TEMP. MIN. TEMP. MIN. TEMP. MIN. TEMP.																																																																																																																											
SAFETY CONSIDERATIONS: LINE SPEED - FEET PER MINUTE <table border="1"> <tr> <th>EXTR. A</th> <th>EXTR. B</th> <th>EXTR. C</th> <th>EXTR. D</th> </tr> <tr> <td>PRESS. 970</td> <td>PRESS. 470.3</td> <td>PRESS. 2215</td> <td>PRESS.</td> </tr> <tr> <td>R.P.M. 50</td> <td>R.P.M. 90</td> <td>R.P.M. 65</td> <td>R.P.M.</td> </tr> <tr> <td>AMPS 4</td> <td>AMPS 20</td> <td>AMPS 16</td> <td>AMPS</td> </tr> <tr> <td>P.P.H.</td> <td>P.P.H.</td> <td>P.P.H.</td> <td>P.P.H.</td> </tr> <tr> <td>MELT °F 454</td> <td>MELT °F 537</td> <td>MELT °F 528</td> <td>MELT °F</td> </tr> <tr> <td>THICK. 1.4</td> <td>THICK.</td> <td>THICK. 33.75</td> <td>THICK.</td> </tr> </table> EXTRUDER BARREL °F <table border="1"> <tr> <td>ZONE 1 300</td> <td>ZONE 1 400</td> <td>ZONE 1 400</td> <td>ZONE 1</td> </tr> <tr> <td>ZONE 2 335</td> <td>ZONE 2 450</td> <td>ZONE 2 450</td> <td>ZONE 2</td> </tr> <tr> <td>ZONE 3 375</td> <td>ZONE 3 475</td> <td>ZONE 3 475</td> <td>ZONE 3</td> </tr> <tr> <td>ZONE 4 385</td> <td>ZONE 4 500</td> <td>ZONE 4 500</td> <td>ZONE 4</td> </tr> <tr> <td>ZONE 5 410</td> <td>ZONE 5 510</td> <td>ZONE 5 510</td> <td>ZONE 5</td> </tr> <tr> <td>ZONE 6 425</td> <td></td> <td></td> <td></td> </tr> </table> CLOEREN BLOCK <table border="1"> <tr> <td>EXTR. A 425</td> <td>510</td> <td>DIE °F</td> </tr> <tr> <td>EXTR. B 510</td> <td></td> <td>LEFT 510</td> </tr> <tr> <td>EXTR. C 510</td> <td></td> <td>CENTER 500</td> </tr> <tr> <td>EXTR. D</td> <td></td> <td>RIGHT 510</td> </tr> </table> TRANSFER PIPES <table border="1"> <tr> <td>EXTR. A</td> <td>EXTR. B</td> <td>EXTR. C</td> <td>EXTR. D</td> </tr> <tr> <td>LADP 425</td> <td>LADP 510</td> <td>LADP 510</td> <td>LADP</td> </tr> <tr> <td>LPIPE</td> <td>LPIPE</td> <td>LPIPE</td> <td>LPIPE</td> </tr> <tr> <td>BLADP</td> <td>BLADP</td> <td>CADP</td> <td>CADP</td> </tr> <tr> <td></td> <td></td> <td>UPIPE</td> <td>UPIPE</td> </tr> <tr> <td></td> <td></td> <td>BLADP</td> <td></td> </tr> </table> ROLL STATION <table border="1"> <tr> <td>CHILL ROLL TEMP.</td> <td>HORIZONTAL POSITION</td> <td>2900</td> <td>PLUG</td> </tr> <tr> <td>PRIMARY 70</td> <td>VERTICAL POSITION</td> <td>15</td> <td></td> </tr> <tr> <td>SECONDARY 70</td> <td></td> <td></td> <td>BBC AA</td> </tr> <tr> <td>PULL ROLL TORQUE</td> <td>MODE:</td> <td>CAST FILM</td> <td></td> </tr> <tr> <td>NIP ROLL TORQUE</td> <td></td> <td>SHEET</td> <td></td> </tr> <tr> <td>SLIT WIDTH =</td> <td></td> <td>COATING</td> <td></td> </tr> <tr> <td></td> <td></td> <td>LAMINATION</td> <td></td> </tr> </table> GRAVITROL % <table border="1"> <tr> <td>A 45</td> <td>B 45</td> <td>C 35</td> <td>D 0</td> </tr> </table>				EXTR. A	EXTR. B	EXTR. C	EXTR. D	PRESS. 970	PRESS. 470.3	PRESS. 2215	PRESS.	R.P.M. 50	R.P.M. 90	R.P.M. 65	R.P.M.	AMPS 4	AMPS 20	AMPS 16	AMPS	P.P.H.	P.P.H.	P.P.H.	P.P.H.	MELT °F 454	MELT °F 537	MELT °F 528	MELT °F	THICK. 1.4	THICK.	THICK. 33.75	THICK.	ZONE 1 300	ZONE 1 400	ZONE 1 400	ZONE 1	ZONE 2 335	ZONE 2 450	ZONE 2 450	ZONE 2	ZONE 3 375	ZONE 3 475	ZONE 3 475	ZONE 3	ZONE 4 385	ZONE 4 500	ZONE 4 500	ZONE 4	ZONE 5 410	ZONE 5 510	ZONE 5 510	ZONE 5	ZONE 6 425				EXTR. A 425	510	DIE °F	EXTR. B 510		LEFT 510	EXTR. C 510		CENTER 500	EXTR. D		RIGHT 510	EXTR. A	EXTR. B	EXTR. C	EXTR. D	LADP 425	LADP 510	LADP 510	LADP	LPIPE	LPIPE	LPIPE	LPIPE	BLADP	BLADP	CADP	CADP			UPIPE	UPIPE			BLADP		CHILL ROLL TEMP.	HORIZONTAL POSITION	2900	PLUG	PRIMARY 70	VERTICAL POSITION	15		SECONDARY 70			BBC AA	PULL ROLL TORQUE	MODE:	CAST FILM		NIP ROLL TORQUE		SHEET		SLIT WIDTH =		COATING				LAMINATION		A 45	B 45	C 35	D 0
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09/833452

AD6728USNA

Response (8 pages)

Affidavit Under Rule 131 (2 pages)

Exhibit A

Exhibit B

Postcard

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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